

FIG.1

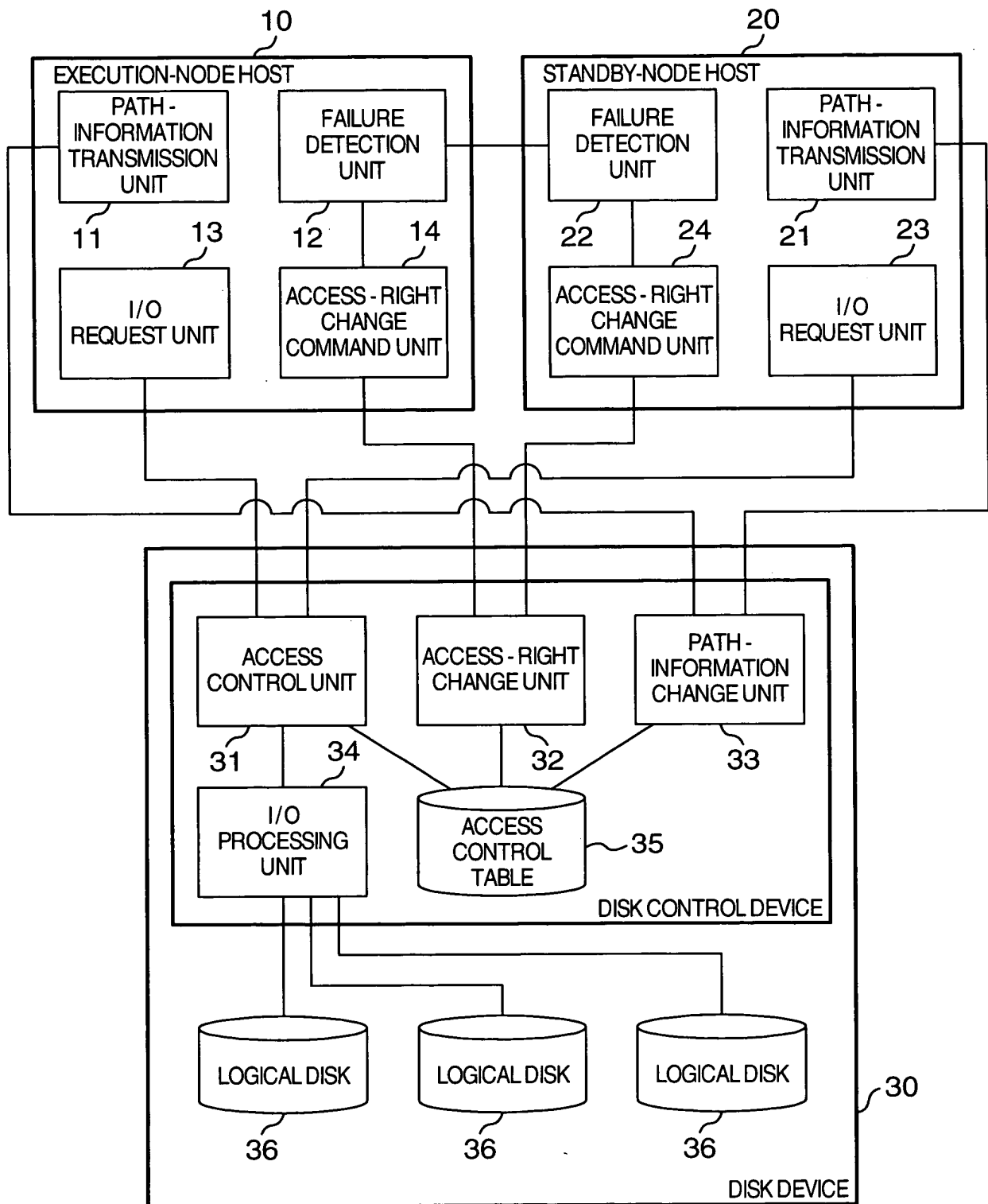


FIG.2

35a

ACCESS-RIGHT MANAGEMENT TABLE		
HOST IDENTIFICATION INFORMATION	I/O-ENABLEMENT/DISABLEMENT	IN-PROCESSING I/O NUMBER
HOST 1	ENABLE	1
HOST 2	DISABLE	0

FIG.3

35b

PATH-INFORMATION MANAGEMENT TABLE	
PATH IDENTIFICATION INFORMATION	HOST IDENTIFICATION INFORMATION
PATH 1	HOST 1
PATH 2	HOST 1
PATH 3	HOST 2
PATH 4	HOST 2

FIG.4

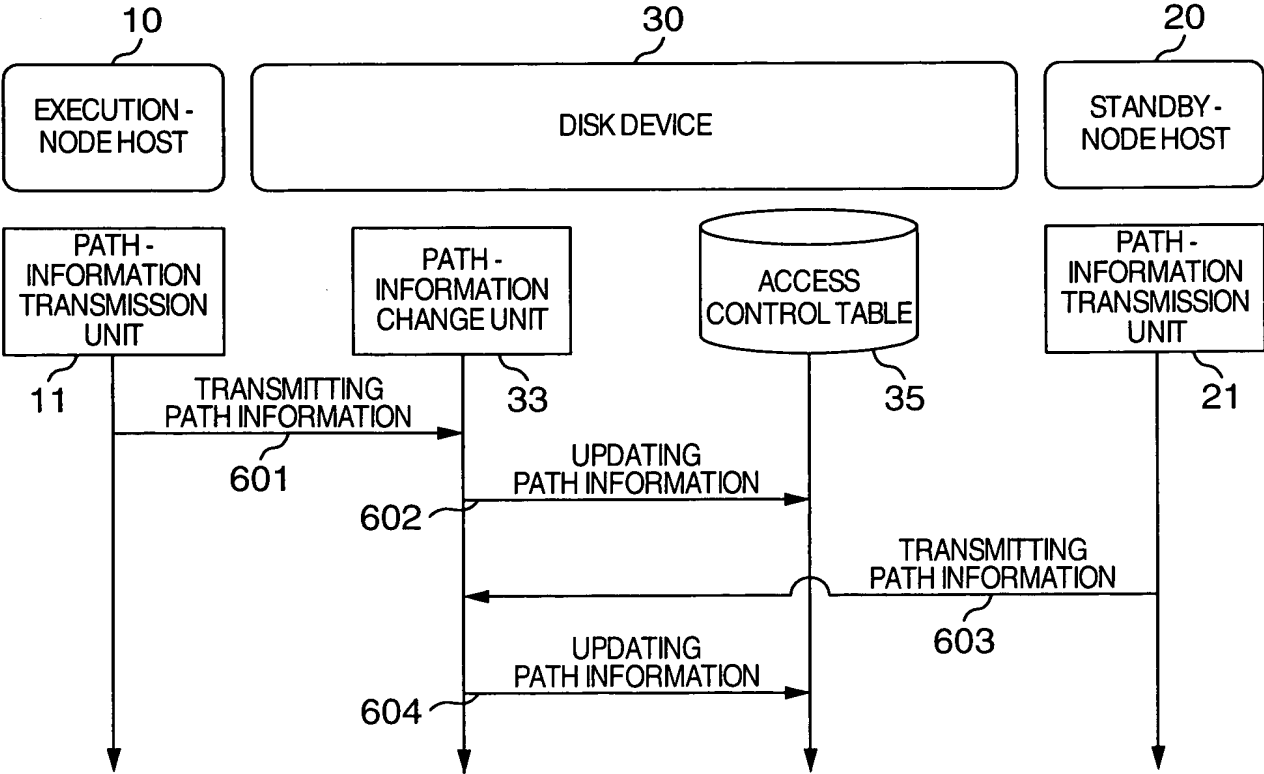


FIG.5

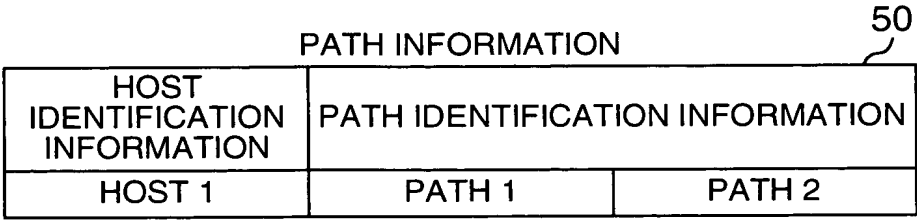


FIG.6

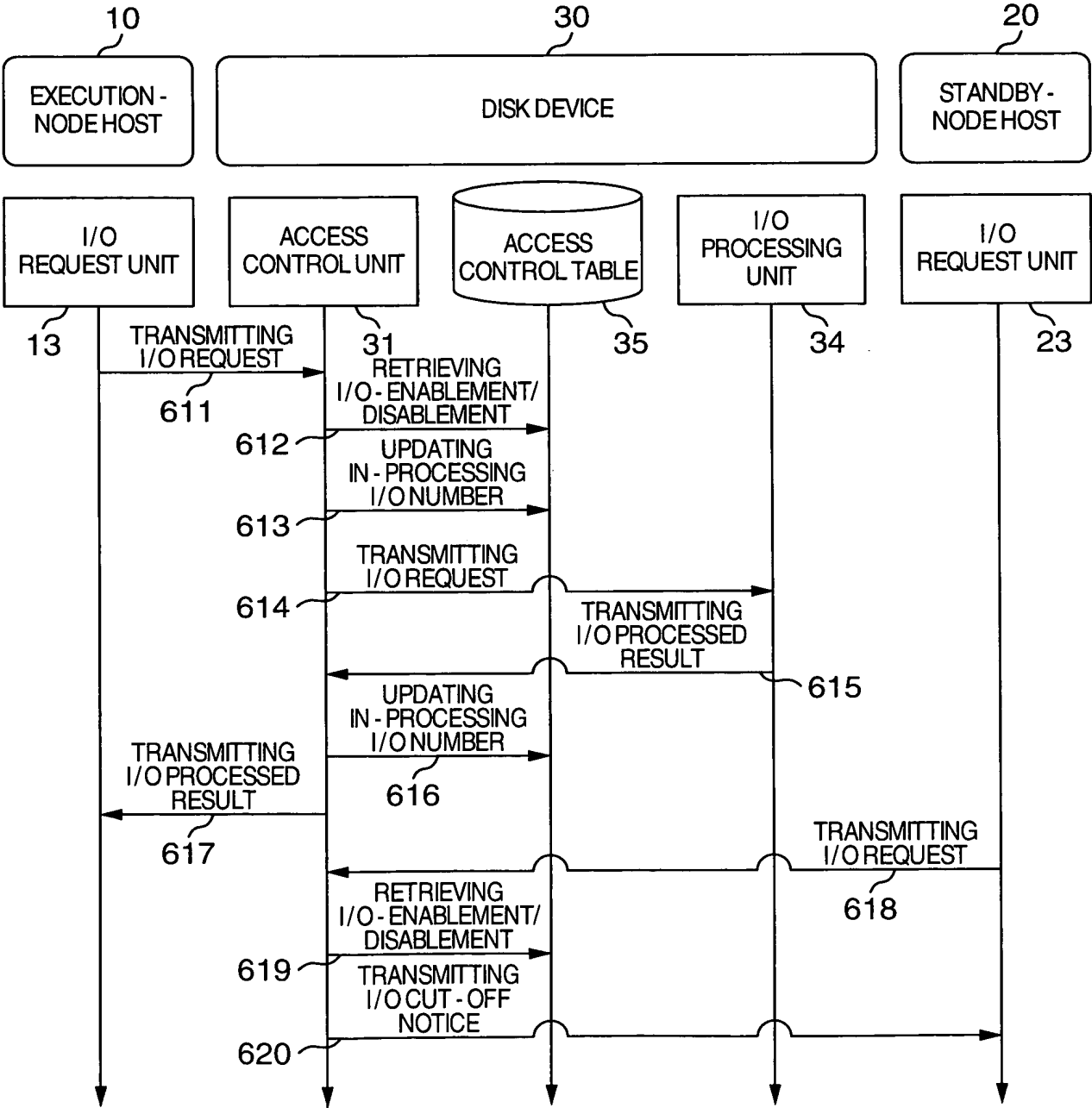


FIG.7

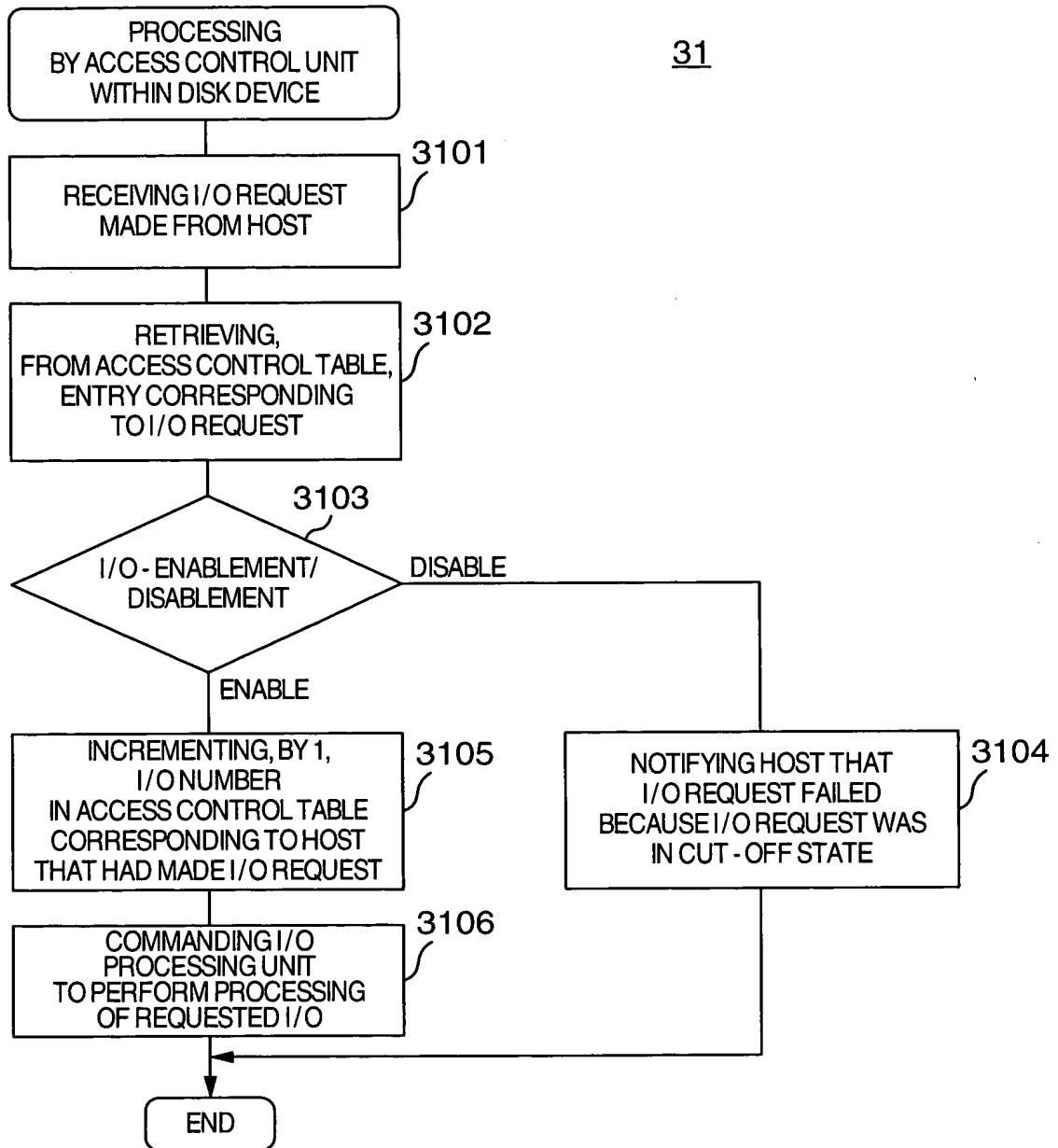


FIG.8

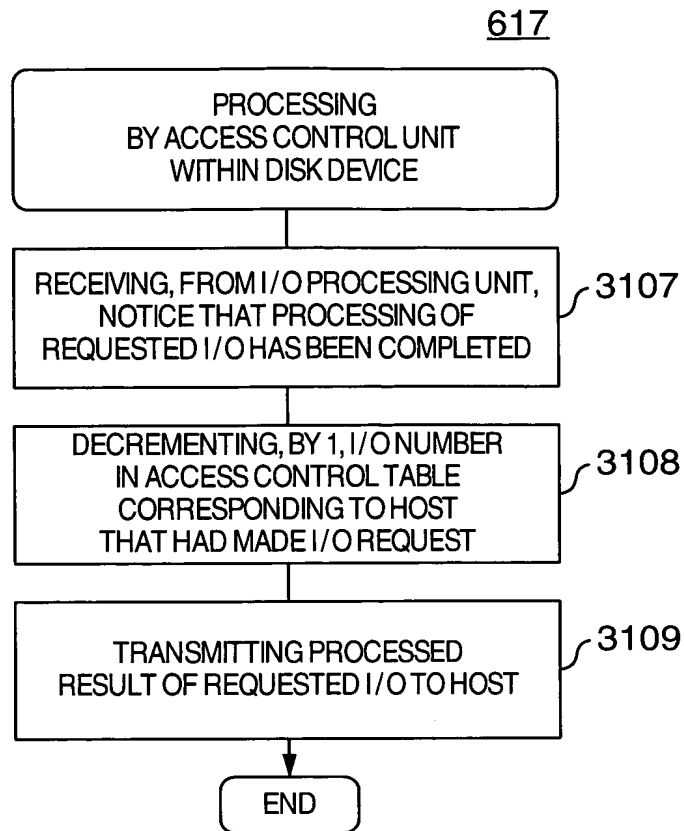


FIG.9

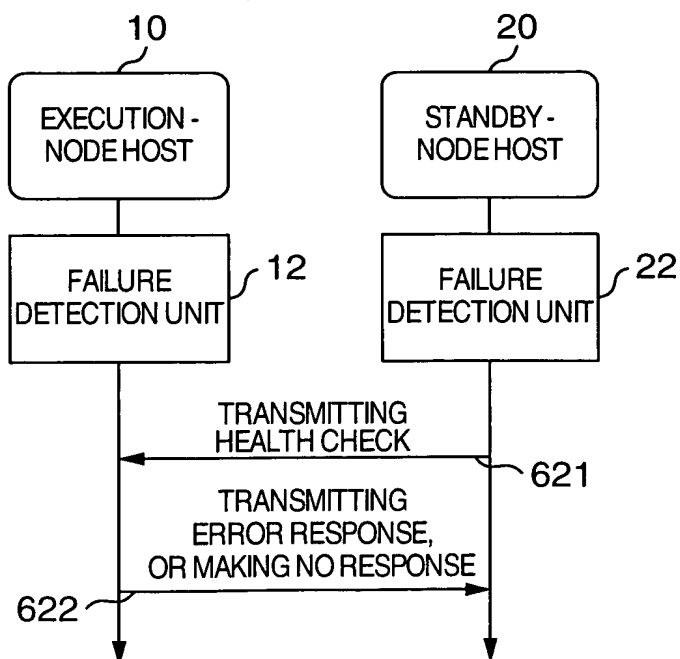


FIG.10

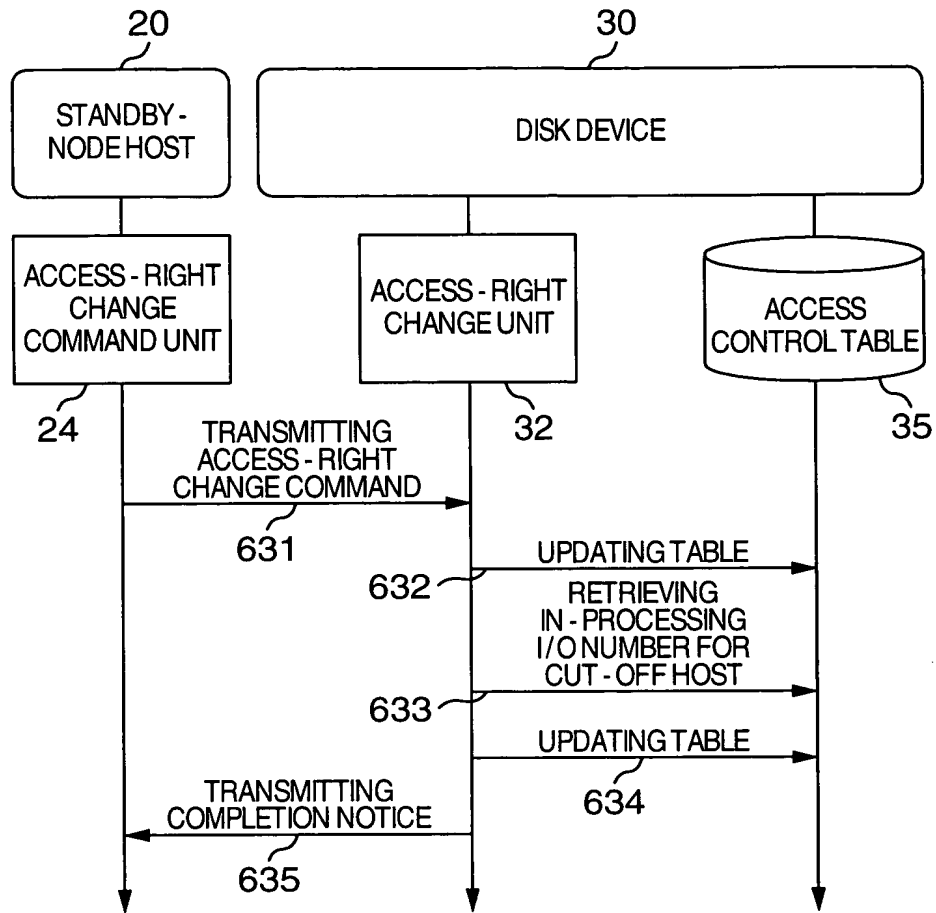


FIG.11

ACCESS-RIGHT
CHANGE COMMAND 110

HOST IDENTIFICATION INFORMATION	I/O-ENABLEMENT/ DISABLEMENT
HOST 1	DISABLE
HOST 2	ENABLE

FIG.12

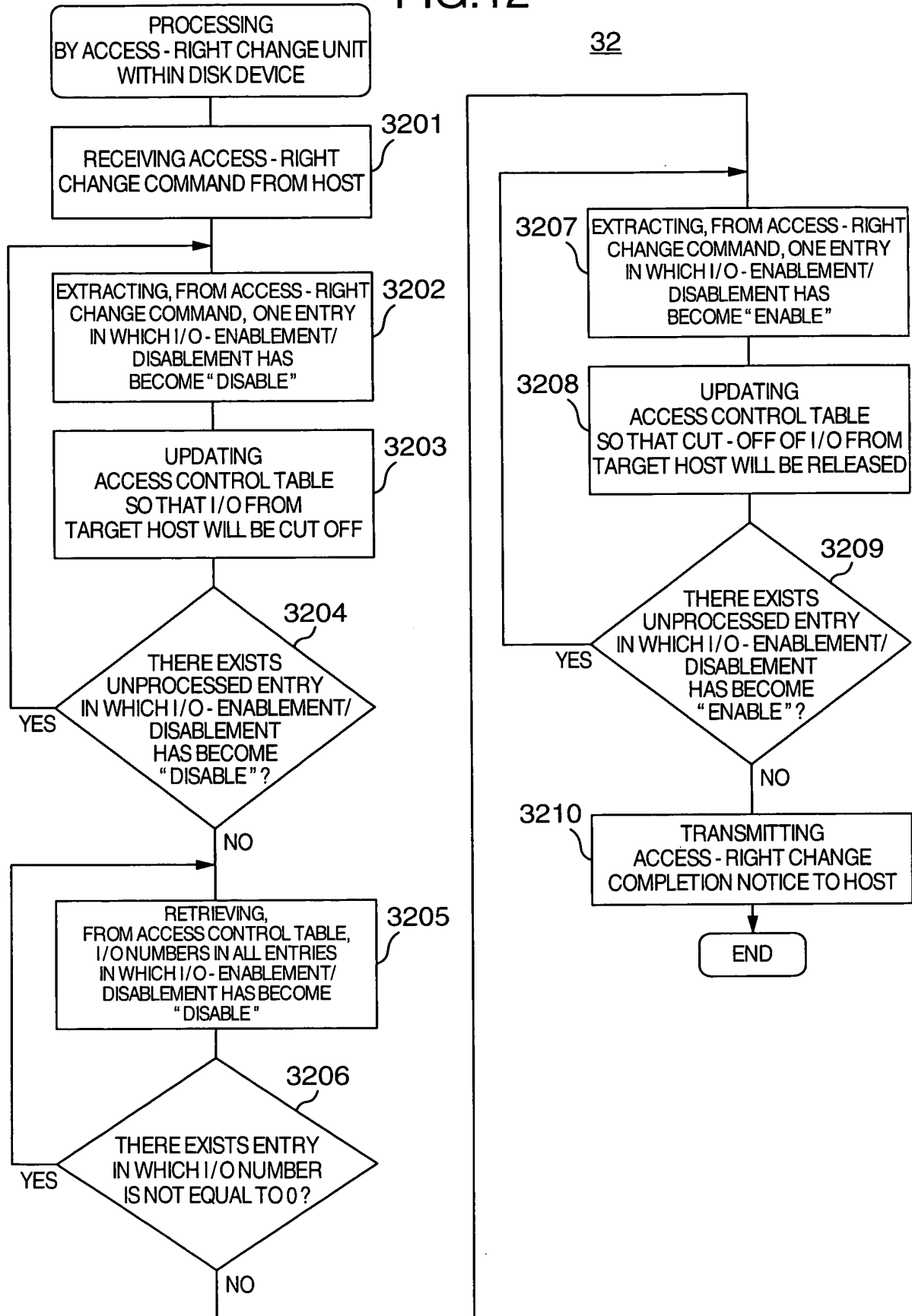


Figure 1 is a configuration diagram of a storage system. The diagram shows three main components: EXECUTION-NODE HOST (10), DISK DEVICE (30), and STANDBY-NODE HOST (20). Below these are their respective internal units: I/O REQUEST UNIT (13), ACCESS CONTROL UNIT (31), ACCESS CONTROL TABLE (35), I/O PROCESSING UNIT (34), and I/O REQUEST UNIT (23). A sequence of operations is shown with arrows: 131 (Transmitting I/O Request from 13 to 34), 612 (Retrieving I/O-Enablement/Disablement from 35 to 31), 613 (Updating In-Processing I/O Number from 31 to 35), 614 (Transmitting I/O Request from 31 to 34), 615 (Transmitting I/O Processed Result from 34 to 35), 616 (Updating In-Processing I/O Number from 35 to 31), 619 (Retrieving I/O-Enablement/Disablement from 35 to 31), 132 (Transmitting I/O Request from 23 to 34), 133 (Transmitting I/O Request from 13 to 31), and 134 (Transmitting I/O Cut-Off Notice from 31 to 13).

FIG.14

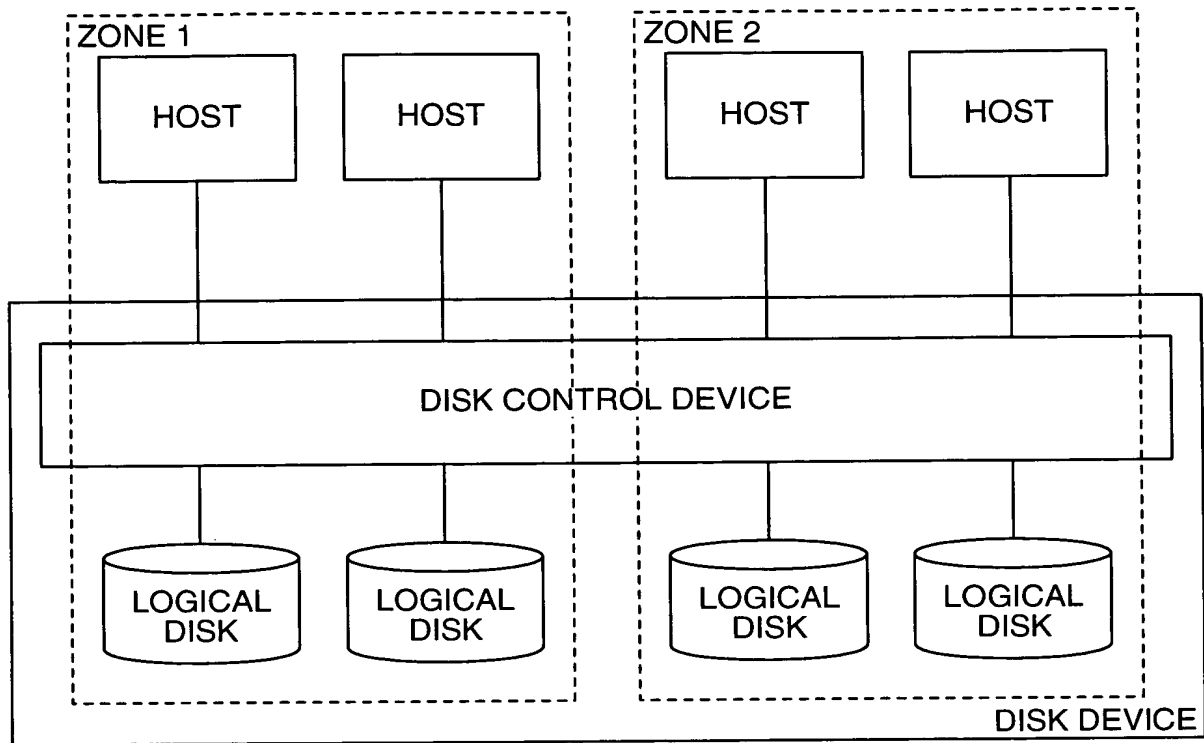


FIG.15

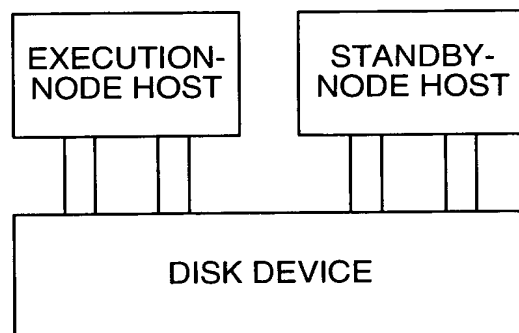


FIG.16

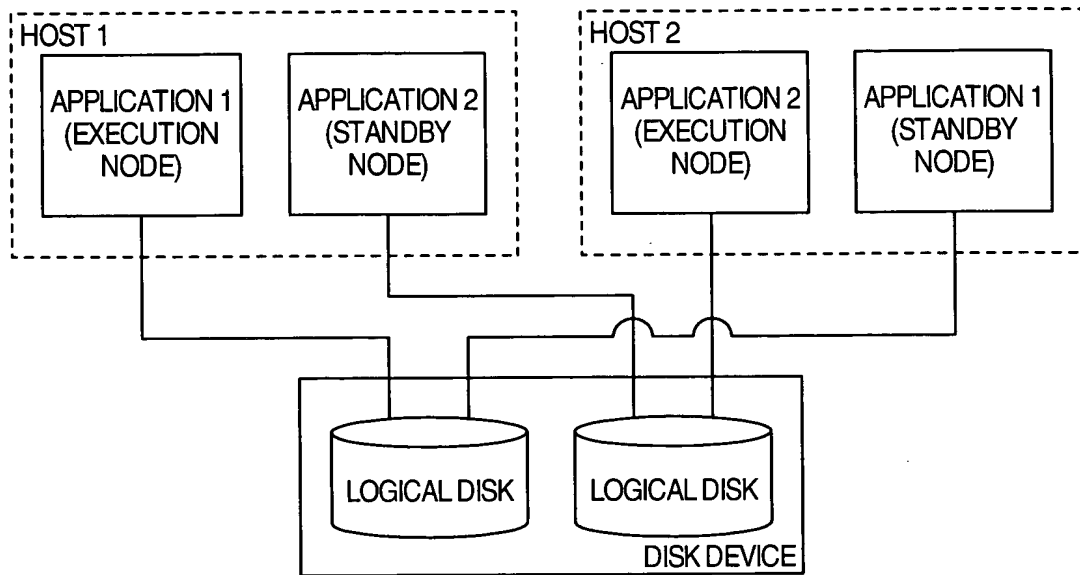


FIG.17

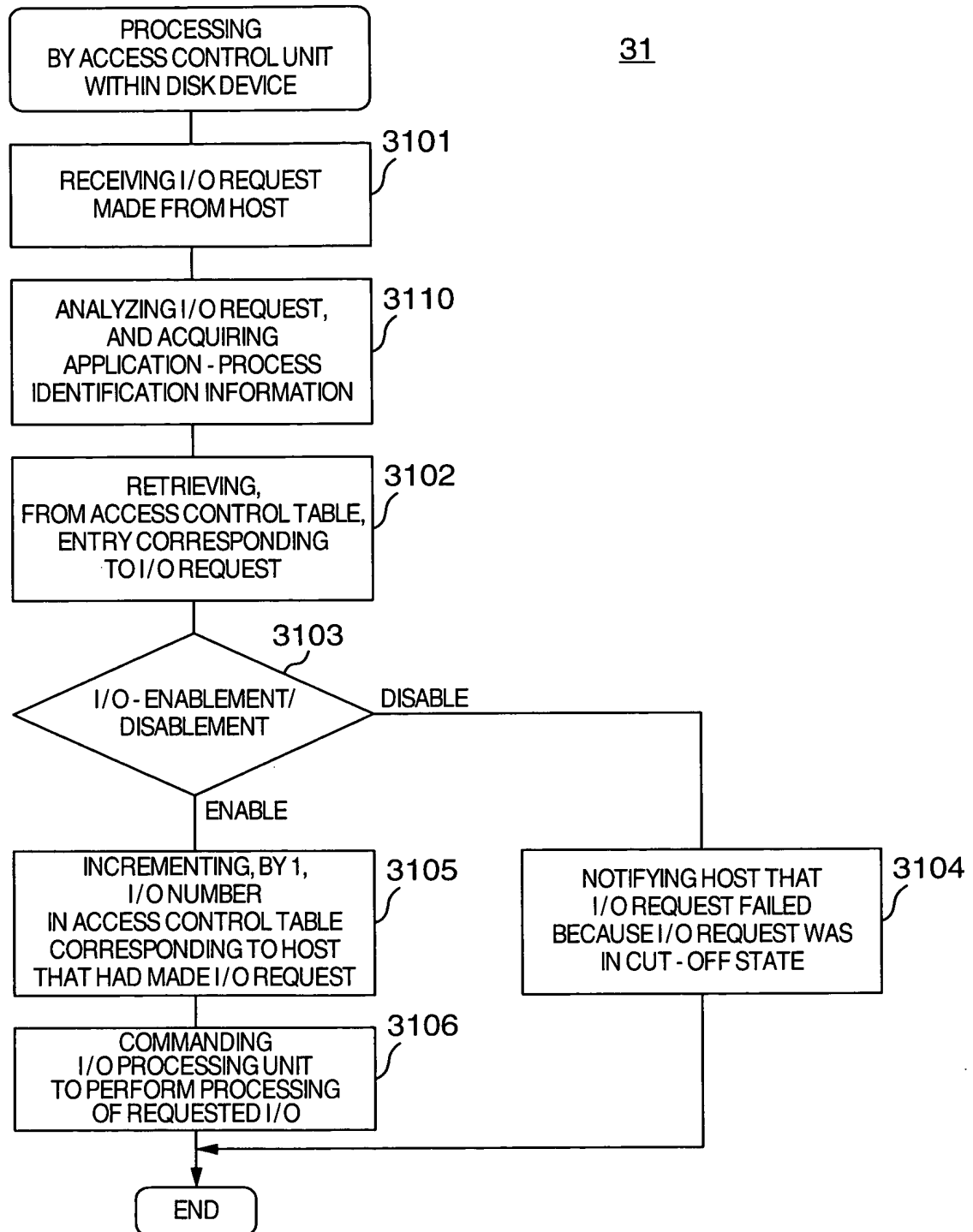


FIG.18

35aa

ACCESS-RIGHT MANAGEMENT TABLE			
LOGICAL-DISK IDENTIFICATION INFORMATION	HOST IDENTIFICATION INFORMATION	I/O-ENABLEMENT/ DISABLEMENT	IN-PROCESSING I/O NUMBER
LOGICAL DISC 1	HOST 1	ENABLE	1
LOGICAL DISC 1	HOST 2	DISABLE	0
LOGICAL DISC 2	HOST 1	DISABLE	0
LOGICAL DISC 2	HOST 2	ENABLE	3

FIG.19

110a

ACCESS-RIGHT CHANGE COMMAND		
LOGICAL-DISK IDENTIFICATION INFORMATION	HOST IDENTIFICATION INFORMATION	I/O-ENABLEMENT/ DISABLEMENT
LOGICAL DISC 1	HOST 1	DISABLE
LOGICAL DISC 1	HOST 2	ENABLE

FIG.20

